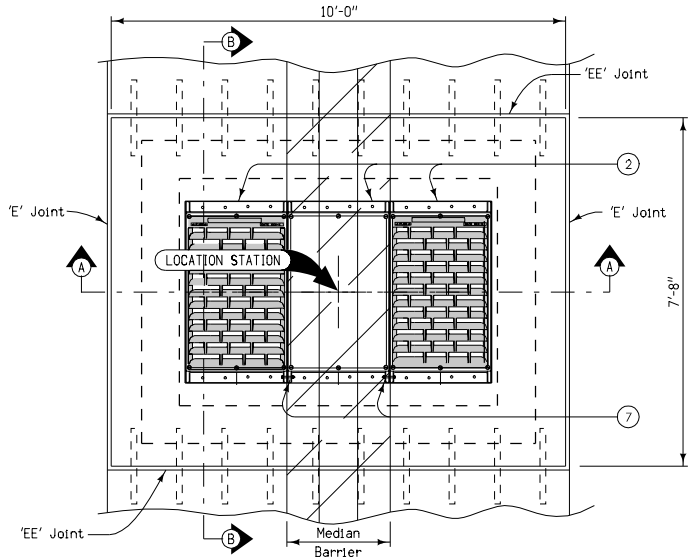
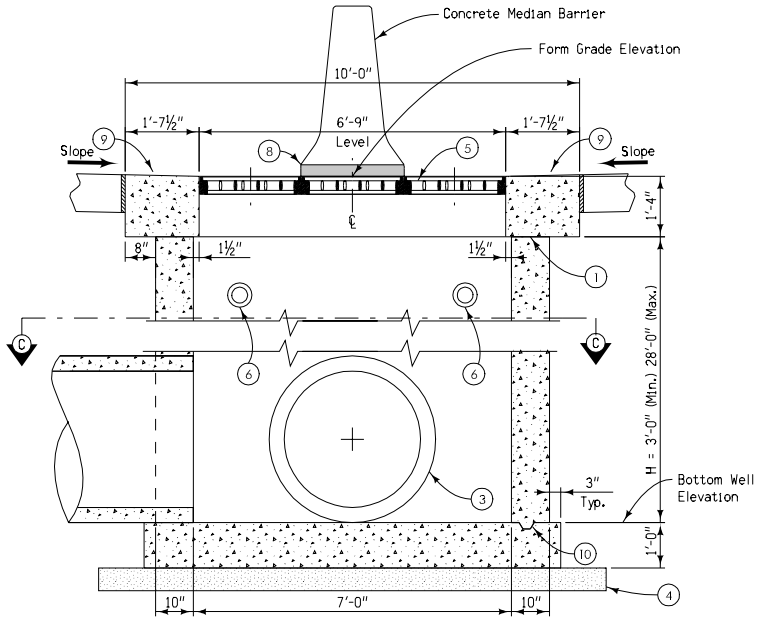


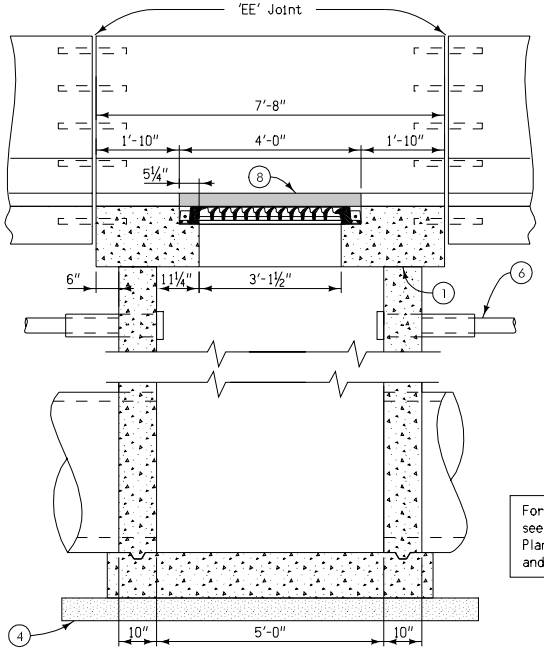
PLAN VIEW



SECTION A-A

1. Trowel smooth and place 2 layers of 30 lb. roofing felt to prevent bond.
2. Cast frame into intake top. See Standard Road Plan RA-66D for frame and grate details.
3. 36" maximum concrete pipe.
4. If intake base is precast, it shall be placed on a 6" bed of sand. This bedding shall be compacted and provide uniform support for the entire area of the base and shall extend 12" outside the edge of the base.
5. Top elevation of grates shall be ¼" below Form Grade Elevation.
6. Possible subdrain. See plans for location and elevation. See Standard Road Plan RF-19C for connection details.
7. Bolt intake frames together on both sides with (4) ½" x 4" bolts.
8. Leave 3" opening through barrier over the intake.
9. Slope of top shall vary to match elevation of adjacent pavement.
10. Intake base may be cast in place or precast. If precast, the base and first wall section may be cast separately with a keyway or as one unit.

Remove center grate before constructing concrete barrier.



SECTION B-B

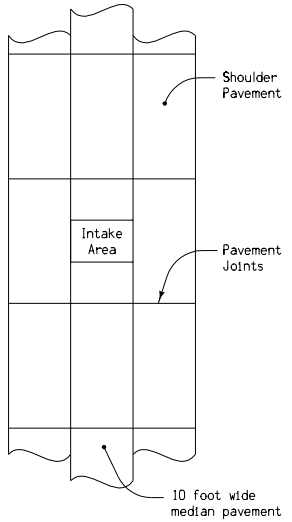
For joint details, see Standard Road Plans RH-50, RH-51, and RH-52.

Steps, when specified, shall meet the requirements of ASTM C478. The top step shall be located a maximum of 28" below the form grade elevation.

Contract Items:

Barrier Intake, RA-47A

Tabulation: 104-5B



TYPICAL
PAVEMENT JOINT LAYOUT DETAIL

Iowa Department of Transportation
Highway Division

STANDARD ROAD PLAN RA-47A(1)

REVISION: NEW	REVISION NO.
	NEW
Deanna Maifeldt	REVISION DATE
APPROVED BY DESIGN METHODS ENGINEER	04-18-06

TRIPLE GRATE BARRIER INTAKE, RECTANGULAR

(Sheet 1 of 4)